



PTO/SB/08A/B (09-06)

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete If Known	
				Application Number	10/789,627-Conf. #7662
				Filing Date	February 26, 2004
				First Named Inventor	Howard KAUFMAN
				Art Unit	1632
				Examiner Name	V. E. Bertoglio
				Attorney Docket Number	0019240.00461US2
Sheet	1	of	1		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/AS/	AA*	US-6,277,599-B1	08-21-2001	Copley et al.	
/AS/	AB*	US-6,190,657-B1	02-20-2001	Pawelek et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ² -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY			

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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
/AS/	CA**	Xiang, R. et al.: "A dual-function DNA vaccine encoding carcinoembryonic antigen and CD40 Ligand trimer induces T cell-mediated carcinoembryonic antigen-transgenic mice," 2001, J. Immunol., Vol. 167, 4560-4565.			
/AS/	CB**	Bereta, M.K. et al.: "Construction of a recombinant Salmonella vector displaying anti-CEA antibody: A novel method for targeting colon adenocarcinoma," March 2002. Proc. Am. Assoc. Cancer Res., Vol. 43, page 663.			
/AS/	CC**	International Search Report issued for International Patent Application No. PCT/US2004/005866.			

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PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/789,627
Filing Date	02/26/04
First Named Inventor	Howard Kaufman
Art Unit	1841 1632
Examiner Name	to be assigned
Attorney Docket Number	5199-49

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/AS/		US- 6,150,584	11-21-2000	Kucherlapati, et al.	
		US- 6,162,963	12-19-2000	Kucherlapati, et al.	
		US- 6,278,039	08-21-2001	Johnson, et al.	
		US- 6,448,080	09-10-2002	Ward, et al.	
		US- 6,461,864	10-08-2002	Soriano, et al.	
		US- 6,479,284	11-12-2002	Marasco, et al.	
		US- 6,503,712	01-07-2003	Thukral, et al.	
		US- 20020006664	01-17-2002	Sabatini, D.M.	
		US- 20030017549	01-23-2003	Owens, et al.	
/AS/		US- 20030018993	01-23-2003	Guterson, et al.	
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FOREIGN PATENT DOCUMENTS

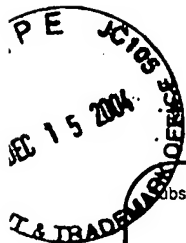
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		Country Code ³ Number ⁴ Kind Code ⁶ (if known)				
/AS/		WO9932619	12-20-2001	Mushegian, et al		
		WO0129058	04-26-2001	Mello, et al.		
		WO0168836	09-20-2001	Beach, et al.		
/AS/		WO0196584	12-20-2001	Mushegian, et al		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
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		Filing Date	02/26/04
		First Named Inventor	Howard Kaufman
		Art Unit	1041 1632
		Examiner Name	to be assigned
Sheet 1	of 38	Attorney Docket Number	5199-49

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/AS/		Agterberg et al., Outer membrane PhoE protein of Escherichia coli as a carrier for foreign antigenic determinants: immunogenicity of epitopes	
		of foot-and-mouth disease virus.	
		Vaccine, 8: 85-91, 1990 (N/A)	
		Allen et al., The identification, cloning and mutagenesis of a genetic locus required for lipopolysaccharide biosynthesis in Bordetella pertussis.	
		Mol. Microbiol., 19: 37-52, 1996	
		Arakawa et al., Mutant loxP vectors for selectable marker recycle and conditional knock-outs.	
		BMC Biotechnol., 1: 7, 2001	
/AS/		Ashrafi et al., Genome-wide RNAi analysis of Caenorhabditis elegans fat regulatory genes.	
		Nature, 421: 268-272, 2003	

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		First Named Inventor	Howard Kaufman
		Art Unit	1641
		Examiner Name	to be assigned
Sheet 2	of 38	Attorney Docket Number	5199-49

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/AS/		Austin et al., A first step in the development of gene therapy for colorectal carcinoma: cloning, sequencing, and expression of Escherichia coli	
		cytosine deaminase.	
		Mol. Pharmacol., 43: 380-387, 1993	
		Ausubel et al., eds., Current Protocols in Molecular Biology (New York, NY: John Wiley & Sons, Inc., 2001) (N/A)	
		Bagshawe et al., A cytotoxic agent can be generated selectively at cancer sites.	
		Br. J. Cancer, 58: 700-703, 1988	
		Bang et al., OmpR regulates the stationary-phase acid tolerance response of Salmonella enterica serovar typhimurium.	
		J. Bacteriol., 182: 2245-2252, 2000	
/AS/		Baumler et al., Identification and sequence analysis of IpfABCDE, a putative fimbrial operon of Salmonella typhimurium.	
		J. Bacteriol., 177: 2087-2097, 1995	

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		Art Unit	1041
		Examiner Name	to be assigned
Sheet 3 of 38	Attorney Docket Number	5199-49	

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/AS/		Baumler et al., The lpf fimbrial operon mediates adhesion of Salmonella typhimurium to murine Peyer's patches.	
		Proc. Natl. Acad. Sci. USA, 93: 279-283, 1996	
		Beers and Berkow (eds.), The Merck Manual of Diagnosis and Therapy, 17th ed. (Whitehouse Station, NJ: Merck Research Laboratories, 1999)	
		973, 974, 976, 986, 988, 991 (N/A)	
		Belanger et al., Functional analysis of genes responsible for the synthesis of the B-band O antigen of Pseudomonas aeruginosa serotype	
		O6 lipopolysaccharide.	
		Microbiology, 145: 3505-3521, 1999	
/AS/		Bentala et al., Removal of phosphate from lipid A as a strategy to detoxify lipopolysaccharide.	
		Shock, 18: 561-566, 2002	

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		First Named Inventor	Howard Kaufman
		Art Unit	1641
		Examiner Name	to be assigned
Sheet 4	of 38	Attorney Docket Number	5199-49

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/AS/		Bignami et al., N-(4'-hydroxyphenylacetyl) palytoxin: a palytoxin prodrug that can be activated by a monoclonal antibody-penicillin G amidase	
		conjugate.	
		Cancer Res., 52: 5759-5764, 1992	
		Billy et al., Specific interference with gene expression induced by long, double-stranded RNA in mouse embryonal teratocarcinoma cell lines.	
		Proc. Natl. Acad. Sci. USA, 98: 14428-14433, 2001	
		Black et al., Creation of drug-specific herpes simplex virus type 1 thymidine kinase mutants for gene therapy.	
		Proc. Natl. Acad. Sci. USA, 93: 3525-3529, 1996	
/AS/		Bochner, et al., Positive selection for loss of tetracycline resistance.	
		J. Bacteriol., 143: 926-933, 1980	

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		Art Unit	1641
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/AS/		Boder et al., Yeast surface display for directed evolution of protein expression, affinity, and stability.	
		Methods Enzymol., 328: 430-444, 2000	
		Bone, R. C., Gram-negative sepsis. Background, clinical features, and intervention.	
		Chest, 100: 802-808, 1991	
		Bouterfa et al., Retinoids inhibit human glioma cell proliferation and migration in primary cell cultures but not in established cell lines.	
		Neurosurgery, 46: 419-430, 2000	
		Buchmeier et al., Induction of Salmonella stress proteins upon infection of macrophages.	
		Science, 248: 730-732, 1990	
/AS/		Buttner et al., Functional analysis of HrpF, a putative type III translocon protein from Xanthomonas campestris pv. vesicatoria.	
		J. Bacteriol., 184: 2389-2398, 2002	

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/AS/		Cairns et al., Lymphotactin expression by engineered myeloma cells drives tumor regression: mediation by CD4+ and CD8+ T cells and	
		neutrophils expressing XCR1 receptor.	
		J. Immunol., 167: 57-65, 2001	
		Carneiro et al., p27 deficiency desensitizes Rb-/-cells to signals that trigger apoptosis during pituitary tumor development.	
		Oncogene, 22: 361-369, 2003	
		Cascales et al., Effects of an antitumoural rhodium complex on thioacetamide-induced liver tumor in rats. Changes in the activities	
		of ornithine decarboxylase, tyrosine aminotransferase and of enzymes involved in fatty acid and glycerolipid synthesis.	
		Biochem. Pharmacol., 35: 2655-2661, 1986	
/AS/		Charbit et al., Presentation of two epitopes of the preS2 region of hepatitis B virus on live recombinant bacteria.	
		J. Immunol., 139: 1658-1664, 1987	

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
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/AS/		Cheng et al., Activated protein C blocks p53-mediated apoptosis in ischemic human brain endothelium and is neuroprotective.	
		Nat. Med., 9(3): 338-342, 2003	
		Christmann et al., Epitope mapping and affinity purification of monospecific antibodies by Escherichia coli cell surface display of gene-derived random	
		peptide libraries.	
		J. Immunol. Methods, 257: 163-173, 2001	
		Chu et al., Toward highly efficient cell-type-specific gene transfer with retroviral vectors displaying single-chain antibodies.	
		J. Virol., 71: 720-725, 1997	
/AS/		Clairmont et al., Biodistribution and genetic stability of the novel antitumor agent VNP20009, a genetically modified strain of Salmonella typhimurium.	
		J. Infect. Dis., 181: 1996-2002, 2000	

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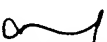
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		Application Number	10/789,627		
		Filing Date	02/26/04		
		First Named Inventor	Howard Kaufman		
		Art Unit	1641		
		Examiner Name	to be assigned		
Sheet	8	of	38	Attorney Docket Number	5199-49

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/AS/		Clodi et al., Expression of CD40 ligand (CD154) in B and T lymphocytes of Hodgkin disease: potential therapeutic significance.	
		Cancer, 94: 1-5, 2002	
		Cottrell et al., Silence of the strands: RNA interference in eukaryotic pathogens.	
		Trends Microbiol., 11: 37-43, 2003 (N/A)	
		Daugherty et al., Development of an optimized expression system for the screening of antibody libraries displayed on the Escherichia coli surface.	
		Protein Eng., 12: 613-621, 1999	
/AS/		DeFilippis et al., Endogenous human papillomavirus E6 and E7 proteins differentially regulate proliferation, senescence, and apoptosis in	
		HeLa cervical carcinoma cells.	
		J. Virol., 77: 1551-1563, 2003	

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/AS/		Earhart, C.F., Use of an Lpp-OmpA fusion vehicle for bacterial surface display.	
		Methods Enzymol., 326: 506-516, 2000	
		Escobar et al., RNAi-mediated oncogene silencing confers resistance to crown gall tumorigenesis.	
		Proc. Natl. Acad. Sci. USA, 98: 13437-13442, 2001	
		Fefer, "Special delivery" to cancer cells.	
		Blood, 99: 1503-1504, 2002	
		Feldhaus et al., Flow-cytometric isolation of human antibodies from a nonimmune <i>Sacharomyces cerevisiae</i> surface display library.	
		Nat. Biotechnol., 21(2): 163-170, 2003	
/AS/		Fields et al., Mutants of <i>Salmonella typhimurium</i> that cannot survive within the macrophage are avirulent.	
		Proc. Natl. Acad. Sci. USA, 83: 5189-5193, 1986	

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/AS/		Fire et al., Potent and specific genetic interference by double-stranded RNA in <i>Caenorhabditis elegans</i> .	
		Nature, 391: 806-811, 1998	
		Folders et al., Characterization of <i>Pseudomonas aeruginosa</i> chitinase, a gradually secreted protein.	
		J. Bacteriol., 183: 7044-7052, 2001	
		Folster et al., The extracellular transport signal of the <i>Vibrio cholerae</i> endochitinase (ChiA) is a structural motif located between amino acids 75 and 555.	
		J. Bacteriol., 184: 2225-2234, 2002	
/AS/		Francisco et al., Production and fluorescence-activated cell sorting of <i>Escherichia coli</i> expressing a functional antibody fragment on the external surface.	
		Proc. Natl. Acad. Sci. USA, 90: 10444-10448, 1993	

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/AS/		Francisco et al., Transport and anchoring of beta-lactamase to the external surface of Escherichia coli.	
		Proc. Natl. Acad. Sci. USA, 89: 2713-2717, 1992	
		Frengen et al., Modular bacterial artificial chromosome vectors for transfer of large inserts into mammalian cells.	
		Genomics, 68: 118-126, 2000	
		Friedman et al., Has the mortality of septic shock changed with time.	
		Crit. Care Med., 26: 2078-2086, 1998	
/AS/		Galan et al., Cloning and characterization of the asd gene of Salmonella typhimurium: use in stable maintenance of recombinant plasmids in	
		Salmonella vaccine strains.	
		Gene, 94: 29-35, 1990	

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/AS/		Georgiou et al., Display of beta-lactamase on the Escherichia coli surface: outer membrane phenotypes conferred by Lpp'-OmpA'-beta-lactamase fusions.	
		Protein Eng., 9: 239-247, 1996	
		Ghosh et al., Chitinase secretion by encysting Entamoeba invadens and transfected Entamoeba histolytica trophozoites: localization of secretory vesicles, endoplasmic reticulum, and Golgi apparatus.	
		Infect. immune., 67: 3073-3081, 1999	
/AS/		Ghosh et al., Role of superoxide dismutase in survival of Leishmania within the macrophage.	
		Biochem. J., 369: 447-452, 2003	

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/AS/		Guo et al., Par-1, A gene required for establishing polarity in C. elegans embryos, encodes a putative Ser/Thr kinase that is asymmetrically distributed.	
		Cell, 81: 611-620, 1995	
		Haenseler et al., Activation of methotrexate-alpha-alanine by carboxypeptidase A-monoclonal antibody conjugate.	
		Biochemistry, 31: 891-897, 1992	
/AS/		Haisma et al., Analysis of a conjugate between anti-carcinoembryonic antigen monoclonal antibody and alkaline phosphatase for specific activation of the prodrug etoposide phosphate.	
		Cancer Immunol. Immunother., 34: 343-348, 1992	

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		Br. J. Cancer, 66: 474-478, 1992	
		Harrison et al., Presentation of foreign antigenic determinants at the bacterial cell surface using the TraT lipoprotein.	
		Res. Microbiol., 141: 1009-1012, 1990	
		Hatse et al., Role of antimetabolites of purine and pyrimidine nucleotide metabolism in tumor cell differentiation.	
		Biochem. Pharmacol., 58: 539-555, 1999	
/AS/		Hedegaard et al., Type 1 fimbriae of Escherichia coli as carriers of heterologous antigenic sequences.	
		Gene, 85: 115-124, 1989	

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/AS/		Heinrichs et al., Apoptosis or growth arrest: modulation of the cellular response to p53 by proliferative signals.	
		Oncogene, 22:555-571, 2003	
		Hirvas et al., Mutants carrying conditionally lethal mutations in outer membrane genes omsA and firA (ssc) are phenotypically similar, and omsA is allelic to firA.	
		EMBO J., 10: 1017-1023, 1991	
		Hofnung, Expression of foreign polypeptides at the Escherichia coli cell surface.	
		Methods Cell Biol., 34: 77-105, 1991	
/AS/		Hsu et al., Induction of p21 (CIP1/Waf1) and activation of p34 (cdc2) involved in retinoic acid-induced apoptosis in human hepatoma	
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		Exp. Cell Res., 248: 87-96, 1999	

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		Biochemistry, 41: 5333-5339, 2002	
		Huser et al., Incorporation of decay-accelerating factor into the baculovirus envelope generates complement-resistant gene transfer vectors.	
		Nat. Biotechnol., 19: 451-455, 2001	
		Hymowitz et al., Triggering cell death: the crystal structure of Apo2L/TRAIL in a complex with death receptor 5.	
		Mol. Cell, 4: 563-571, 1999	
		Isticato et al., Surface display of recombinant proteins on Bacillus subtilis spores.	
		J. Bacteriol., 183: 6294-6301, 2001	
/AS/		Johnson et al., Structural characterization of monophosphoryl lipid A homologs obtained from Salmonella Minnesota Re595 lipopolysaccharide.	
		J. Biol. Chem., 265: 8108-8116, 1990	

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		Mol. cell Biol., 16: 6945-6956, 1996	
		Kanegasaki et al., Structure-activity relationship of lipid A : comparison of biological activities of natural and synthetic lipid A's with different fatty acid compositions.	
		J. Biochem. (Tokyo), 99: 1203-1210, 1986	
/AS/		Kelly et al., The firA gene of Escherichia coli encodes UDP-3-O-(R-3-hydroxymyristoyl)-glucosamine N-acyltransferase.	
		The third step of endotoxin biosynthesis.	
		J. Biol. Chem., 268: 19866-19874, 1993	

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/789,627
		Filing Date	02/26/04
		First Named Inventor	Howard Kaufman
		Art Unit	1641
		Examiner Name	to be assigned
Sheet 18	of 38	Attorney Docket Number	5199-49

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/AS/		Kerr et al., Antibody-penicillin-V-amidase conjugates kill antigen-positive tumor cells when combined with doxorubicin phenoxyacetamide.	
		Cancer Immunol. Immunother., 31: 202-206, 1990	
		Khan et al., A lethal role for lipid A in Salmonella infections.	
		Mol. Microbiol., 29: 571-579, 1998	
		Khayyamian et al., ICOS-ligand, expressed on human endothelial cells, constimulates Th1 and Th2 cytokine secretion by memory CD4+ T cells.	
		Proc. Natl. Acad. Sci. USA, 99: 6198-6203, 2002	
/AS/		Kjaergaard et al., Antigen 43-mediated autotransporter display, a versatile bacterial cell surface presentation system.	
		J. Bacteriol., 184: 4197-4204, 2002	

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/AS/		Klena et al., Cloning, sequencing, and characterization of the lipopolysaccharide biosynthetic enzyme heptosyltransferase I gene	
		(waaC) from Campylobacter jejuni and Campylobacter coli.	
		Gene, 222: 177-185, 1998	
		Knox et al., A new cytotoxic, DNA interstrand crosslinking agents, 5-(aziridin-1-yl)-4-hydroxylamino-2-nitrobenzamide, is formed from	
		5-(aziridin-1-yl)-2,4-dinitrobenzamide (CB 1954) by a nitroreductase enzyme in Walker carcinoma cells.	
		Biochem. Pharmacol., 37: 4661-4669, 1988	
/AS/		Kokoris et al., Characterization of Herpes Simplex Virus type 1 thymidine kinase mutants engineered for improved ganciclovir or acyclovir activity.	
		Protein Sci., 11: 2267-2272, 2002	

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/AS/		Kononova et al., The primary structure of the N-terminal region of mature alkaline phosphatase is critical for secretion and function of the enzyme.	
		Biochemistry (Mosc.), 65: 1075-1081, 2000 (N/A)	
		Kornacker et al., Molecular characterization of pula and its product, pullulanase, a secreted enzyme of Klebsiella pneumoniae UNF 5023.	
		Mol. Microbiol., 4: 73-85, 1990	
		Koronakis et al., Isolation and analysis of the C-terminal signal directing export of Escherichia coli hemolysin protein across both bacterial	
		membranes.	
		EMBO J., 8: 595-605, 1989	
/AS/		Kwong et al., The suppression of colon cancer cell growth in nude mice by targeting beta-catenin/TCF pathway.	
		Oncogene, 21: 8340-8346, 2002	

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/AS/		Lamping et al., LPS-binding protein protects mice from septic shock caused by LPS or gram-negative bacteria.	
		Clin. Invest., 101: 2065-71268, 1998	
		Laochumroonvorapong et al., Perforin, a cytotoxic molecule which mediates cell necrosis, is not required for the early control of focal adhesion kinase	
		by caspases during apoptosis.	
		J. Biol. Chem., 272: 26056-26061, 1997	
		Lee et al., The hepatitis B virus encoded oncoprotein pX amplifies TGF-beta family signaling through direct interaction with Smad4: potential	
		mechanism of hepatitis B virus-induced liver fibrosis.	
		Genes Dev., 15: 455-466, 2001	
/AS/		Liu et al., Induction of apoptotic program in cell-free extracts: requirement for dATP and cytochrome c.	
		Cell, 86: 147-157, 1996	

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/AS/		Lloyd et al., Molecular characterization of type III secretion signals via analysis of synthetic N-terminal amino acid sequences.	
		Mol. Microbiol., 43: 51-59, 2002	
		Low et al., Lipid A mutant Salmonella with suppressed virulence and TNFalpha induction retain tumor-targeting in vivo.	
		Nat. Biotechnol., 17: 37-41, 1999	
		Lu et al., Polymerizable Fab' antibody fragments for targeting of anticancer drugs.	
		Nat. Biotechnol., 17: 1101-1104, 1999	
		Lu et al., Activation of multiple caspases and modification of cell surface fas (CD95) in proteasome inhibitor-induced apoptosis of rat natural killer cells.	
		J. Cell Biochem., 88: 482-492, 2003	
/AS/		Mackman et al., Release of a chimeric protein into the medium from Esherichia coli using the C-terminal secretion signal of haemolysin.	
		EMBO J., 6: 2835-2841, 1987	

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/AS/		Maniatis et al., Molecular Cloning: A Laboratory Manual, 2nd ed. (Cold Spring Harbor: Cold Spring Harbor Laboratory, 1989 (N/A)	
		Marolda et al., Identification, expression, and DNA sequence of the GDP-mannose biosynthesis genes encoded by the O7 rfb gene cluster	
		of strain	
		VW187 (Escherichia coli O7: K1).	
		J. Bacteriol., 175: 148-158, 1993	
		Martinez-Canamero et al., mlpB, a gene encoding a new lipoprotein in Myxococcus xanthus.	
		J. Appl. Microbiol., 92: 134-139, 2002 (N/A)	
/AS/		Mastrobattista et al., Functional characterization of an endosome-disruptive peptide and its application in cytosolic delivery of immunoliposome-	
		entrapped proteins.	
		J. Biol. Chem., 277: 27135-27143, 2002	

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/AS/		Maxwell and Rivera, Proline oxidase induces apoptosis in tumor cells and its expression is absent or reduced in renal carcinoma.	
		J. Biol. Chem., e-publication ahead of print, 2003	
		Mei et al., Optimization of tumor-targeted gene delivery by engineered attenuated Salmonella typhimurium.	
		Anticancer Res., 22: 3261-3266, 2002	
		Meyer et al., Site-specific prodrug activation by antibody-beta-lactamase conjugates: regression and long-term growth inhibition of human colon carcinoma xenograft models.	
		Cancer Res., 53: 3956-3963, 1993	
/AS/		Mills et al., Trafficking of porin-deficient Salmonella typhimurium mutants inside HeLa cells: ompR and envZ mutants are defective for the formation of Salmonella-induced filaments.	
		Infect. Immun., 66: 1806-1811, 1998	

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/AS/		Moolten et al., Curability of tumors bearing herpes thymidine kinase genes transferred by retroviral vectors.	
		J. Natl. Cancer Inst., 82(4): 297-300, 1990	
		Morishima et al., An endoplasmic reticulum stress-specific caspase cascade in apoptosis. Cytochrome c-independent activation of caspase-9	
		by caspase-12.	
		J. Biol. Chem., 277: 34287-34294, 2002	
/AS/		Mullen et al., Transfer of the bacterial gene for cytosine deaminase to mammalian cells confers lethal sensitivity to 5-fluorocytosine: a negative	
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		Proc. Natl. Acad. Sci. USA, 89: 33-37, 1992	

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		Cancer Res., 54: 1503-1506, 1994	
		Nakamoto et al., Prevention of hepatocellular carcinoma development associated with chronic hepatitis by anti-fas ligand antibody therapy.	
		J. Exp. Med., 196: 1105-1111, 2002	
		Nauts et al., A review of the influence of bacterial infection and of bacterial products (Coley's toxins) on malignant tumors in man.	
		Acta Medica Scandinavica, 145(Suppl. 276): 1-102, 1953	
/AS/		Newton et al., Immune response to cholera toxin epitope inserted in Salmonella flagellin.	
		Science, 244: 70-72, 1989	

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		into cancer cells.	
		Proc. Natl. Acad. Sci. USA, 99: 10706-10711, 2002	
		Nikolaev et al., Parc. A cytoplasmic anchor for p53.	
		Cell, 112, 29-40, 2003	
		Nishiyama et al., Antineoplastic effects in rats of 5-fluorocytosine in combination with cytosine deaminase capsules.	
		Cancer Res., 45: 1753-1761, 1985	
/AS/		Norris et al., Phase variation of the lpf operon is a mechanism to evade cross-immunity between Salmonella serotypes.	
		Proc. Natl. Acad. sci. USA, 96: 13393-13398, 1999	

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
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		Application Number	10/789,627
		Filing Date	02/26/04
		First Named Inventor	Howard Kaufman
		Art Unit	1641
		Examiner Name	to be assigned
Sheet 28	of 38	Attorney Docket Number	5199-49

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/AS/		Numasaki et al., Interleukin-17 promotes angiogenesis and tumor growth.	
		Blood, 101(7): 2620-2627, 2003	
		Oltvai et al., Bcl-2 heterodimerizes in vivo with a conserved homolog, Bax, that accelerates programmed cell death.	
		Cell, 74: 609-619, 1993	
		Opal et al., Endotoxin as a drug target.	
		Crit. Care Med., 31: S57-64, 2003	
/AS/		Oscarsson et al., Characterization of a pore-forming cytotoxin expressed by Salmonella enterica serovars typhi and paratyphi A.	
		Infect. Immun., 70: 5759-5769, 2002	

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		therapeutic intervention.	
		Biochim. Biophys. Acta, 1555: 14-20, 2002	
		Potter et al., Cloning and characterization of the galE locus of Pasteurella haemolytica A1.	
		Infect. Immun., 64: 855-860, 1996	
		Pugsley et al., Two distinct steps in pullulanase secretion by Escherichia coli K12.	
		Mol. Microbiol., 5: 865-873, 1991	
/AS/		Puricelli et al., Heregulin inhibits proliferation via ERKs and phosphatidyl-inositol 3-kinase activation but regulates urokinase	
		plasminogen activator independently of these pathways in metastatic mammary tumor cells.	
		Int. J. Cancer, 100: 642-653, 2002	

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		Toxicol. Appl. Pharmacol., 148: 148-157, 1998	
		Raetz, Bacterial endotoxins: extraordinary lipids that activate eukaryotic signal transduction.	
		J. Bacteriol., 175: 5745-5753, 1993	
		Ramachandra et al., Inhibition of lipid A- and lipopolysaccharide-induced cytokine secretion, B cell mitogenesis, and lethal shock by lipid A-specific murine monoclonal antibodies.	
		J. Infect. Dis., 167: 1151-1159, 1993	
/AS/		Roffler et al., Anti-neoplastic glucuronide prodrug treatment of human tumor cells targeted with a monoclonal antibody-enzyme conjugate.	
		Biochem. Pharmacol., 42: 2062-2065, 1991	

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/AS/		Rothenberg et al., Murine eotaxin: an eosinophil chemoattractant inducible in endothelial cells and in interleukin 4-induced tumor suppression.	
		Proc. Natl. Acad. Sci. USA, 92: 8960-8964, 1995	
		Roy et al., Mutations in firA, encoding the second acyltransferase in lipopolysaccharide biosynthesis, affect multiple steps in lipopolysaccharide	
		biosynthesis.	
		J. Bacteriol., 176: 1639-1646, 1994	
		Rundle et al., Association between the ras p21 oncoprotein in blood samples and breast cancer.	
		Cancer Lett., 185: 71-78, 2002	
		Sambrook et al., Molecular Cloning: A Laboratory Manual, 2nd ed. (Cold Spring Harbor, NY: Cold Spring Harbor Laboratory Press, 1989) (N/A)	
/AS/		Samuelson et al., Cell surface display of recombinant proteins on Staphylococcus carnosus.	
		J. Bacteriol., 177: 1470-1476, 1995	

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/AS/		Sebastiani et al., Host immune response to Salmonella enterica serovar Typhimurium infection in mice derived from wild strains.	
		Infect. Immun., 70: 1997-2009, 2002	
		Shah et al., The role of cadherin, beta-catenin, and AP-1 in retinoid-regulated carcinoma cell differentiation and proliferation.	
		J. Biol. Chem., 277: 25313-25322, 2002	
		Shi, Y., Mechanisms of caspase activation and inhibition during apoptosis.	
		Mol. Cell, 9: 459-470, 2002	
/AS/		Simula et al., Heterologous expression of drug-metabolizing enzymes in cellular and whole animal models.	
		Toxicology, 82: 3-20, 1993	

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/AS/		Singer et al., The tumor growth-inhibiting cell adhesion molecule CEACAM1 (C-CAM) is differently expressed in proliferating and	
		quiescent epithelial cells and regulates cell proliferation.	
		Cancer Res., 60: 1236-1244, 2000	
		Springer et al., Novel prodrugs which are activated to cytotoxic alkylating agents by carboxypeptidase G2.	
		J. Med. Chem., 33: 677-681, 1990	
		Stahl et al., Bacterial surface display: trends and progress.	
		Trends Biotechnol., 15: 185-192, 1997 (N/A)	
/AS/		Stein et al., Oligodeoxynucleotides as inhibitors of gene expression: a review.	
		Cancer Res., 48: 2659-2668, 1998	

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/AS/		Steinbrecher et al., Targeted inactivation of the mouse guanylin gene results in altered dynamics of colonic epithelial proliferation.	
		Am. J. Pathol., 161: 2169-2178, 2002	
		Sutterlin et al., The correlation of c-erbB-2 oncoprotein and established prognostic factors in human breast cancer.	
		Anticancer Res., 20: 5083-5088, 2000	
		Tan et al., Engineering a novel secretion signal for cross-host recombinant protein expression.	
		Protein Eng., 15: 337-345, 2002	
		Tang et al., Induction and characterization of heat shock proteins of Salmonella typhi and their reactivity with sera from patients with typhoid fever.	
		Infect. Immun., 65: 2983-2986, 1997	
/AS/		Tannenbaum et al., The CXC chemokines IP-10 and Mig are necessary for IL-12 mediated regression of the mouse RENCA tumor.	
		J. Immunol., 161: 927-932, 1998	

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		Cancer Gene Ther., 10: 112-120, 2003	
		van den Berg et al., High expression of the CC chemokine TARC in Reed-Sternberg cells. A possible explanation for the characteristic T-cell infiltrate in Hodgkin's lymphoma.	
		Am. J. Pathol., 154: 1685-1691, 1999	
/AS/		van Deventer et al., Transfection of macrophage inflammatory protein 1 alpha into B16F10 melanoma cells inhibits growth of pulmonary metastases but not subcutaneous tumors.	
		J. Immunol., 169: 1634-1639, 2002	

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		Ann. N. Y. Acad. Sci., 917: 210-220, 2000	
		Vile et al., Use of tissue-specific expression of the herpes simplex virus thymidine kinase gene to inhibit growth of established murine melanomas following direct intratumoral injection of DNA.	
		Cancer Res., 53: 3860-3864, 1993	
		Vrudhula et al., Prodrugs of doxorubicin and melphalan and their activation by a monoclonal antibody-penicillin-G amidase conjugate.	
		J. Med. Chem., 36: 919-923, 1993	
/AS/		Wagner et al., Nucleotide sequence of the thymidine kinase gene of herpes simplex virus type i.	
		Proc. Natl. Acad. Sci. USA, 78: 1441-1445, 1981	

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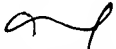
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		Curr. Biol., 7: 530-533, 1997	
		Wilda et al., Killing of leukemic cells with a BCR/ABL fusion gene RNA interferences (RNAi).	
		Oncogene, 21: 5716-5724, 2002	
		Woodward et al., Stimulation and inhibition of uveal melanoma invasion by HGF, GRO, IL-1alpha and TGF-beta.	
		Invest Ophthalmol. Vis. Sci., 43: 3144-3152, 2002	
		Wu et al., Tumor localization of anti-CEA single-chain Fvs: improved targeting by non-covalent dimers.	
		Immunotechnology, 2: 21-36, 1996 (N/A)	
/AS/		Yu et al., Mediation of poly(ADP-ribose) polymerase-1-dependent cell death by apoptosis-inducing factor.	
		Science, 297: 259-263, 2002	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		Application Number	10/789,627		
		Filing Date	02/26/04		
		First Named Inventor	Howard Kaufman		
		Art Unit	1641		
		Examiner Name	to be assigned		
Sheet	38	of	38	Attorney Docket Number	5199-49

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/AS/		Zhang et al., An anti-sense construct of full-length ATM cDNA imposes a radiosensitive phenotype on normal cells.	
		Oncogene, 17: 811-888, 1998	
		Zhou et al., Radiation and the Apo2L/TRAIL apoptotic pathway preferentially inhibit the colonization of premalignant human breast cells	
		overexpressing cyclin D1.	
		Cancer Res., 60(10): 2611-2615, 2000	
		Zou et al., Systemic tumor suppression by the proapoptotic gene bik.	
		Cancer Res., 62: 8-12, 2002	
/AS/		Zou et al., Apaf-1, a human protein homologous to C. elegans CED-4, participates in cytochrome c-dependent activation of caspase-3.	
		Cell, 90: 405-413, 1997	

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